```
=> s streptomyces(l)stemphylium
         34982 STREPTOMYCES
           535 STEMPHYLIUM
L2           5 STREPTOMYCES(L)STEMPHYLIUM

=> d bib abs 1-5

L2   ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2002:505445  CAPLUS
DN   137:78004
TI   Process for the production of piperidinylhydroxybutylphenyldimethylacetate
     s via microbial oxidation.
IN   Michels, Peter C.; Zirbes, Eric L.
PA   USA
SO   U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of U.S. Ser. No. 708,959.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
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PI   US 2002087003         A1    20020704    US 2001-754786          20010104
     US 6613907            B2    20030902
     CA 2427387            AA    20021024    CA 2001-2427387         20011106
     WO 2002083062         A2    20021024    WO 2001-US43714         20011106
     WO 2002083062         A3    20030103
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
             UG, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1339864            A2    20030903    EP 2001-273746          20011106
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2004522454         T2    20040729    JP 2002-580867          20011106
     BR 2001015191         A     20041214    BR 2001-15191           20011106
     NZ 526040             A     20051028    NZ 2001-526040          20011106
     NO 2003001974         A     20030613    NO 2003-1974            20030430
     US 2005038254         A1    20050217    US 2003-638841          20030811
PRAI US 2000-708959        A2    20001108
     US 2001-754786        A     20010104
     WO 2001-US43714       W     20011106
OS   CASREACT 137:78004; MARPAT 137:78004
GI
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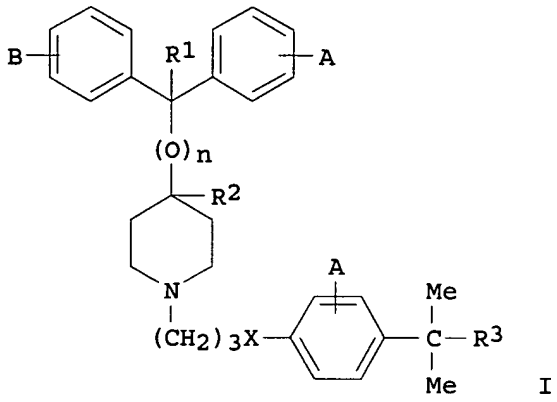


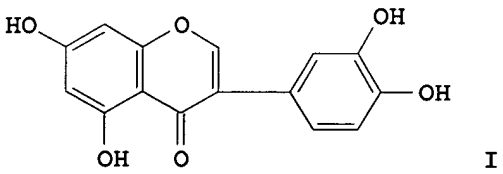
I

AB Title compds. [I; n = 0, 1; R1 = H, OH; R2 = H; or, when n = 0, R1R2 = bond; provided that when n = 1, R1 and R2 both = H; R3 = CO2H, CO2R4; R4 = alkyl, aryl; A, B, D = H, halo, alkyl, OH, alkoxy; X = CO, CH(OH)], were prepared by incubating I (R3 = Me; other variables as above) with a microorganism of a genus selected from **Streptomyces**, **Stemphylium**, Gliocladium, Bacillus, Botrytis, Cyathus, Rhizopus, Pycniodosphora, Pseudomonas, Helicostylum, Aspergillus, Mucor, Gelasinospora, Rhodotorula, Candida, Mycobacterium, or Penicillium. Alternatively, the microorganism can be Cunninghamella bainieri. Thus, terfenadine was incubated with **Streptomyces** rimosus NRRL-2234 in a soybean flour medium at 29° to give a product containing 76% terfenadine acid metabolite.

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1976:178218 CAPLUS
DN 84:178218
TI Microbial production of orobole
IN Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa
PA Microbiochemical Research Foundation, Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 50160482	A2	19751225	JP 1974-69118	19740619
PRAI	JP 1974-69118	A	19740619		

GI



I

AB Orobole (I) [480-23-9] was produced by an aerobic culture of a I-producing microbe, especially by **Stemphylium**, **Streptomyces**, or Aspergillus. Thus, **Stemphylium** sp. 664 (FERM-P 2013) was cultured with shaking at 27° for 6 days on a medium containing potato starch 2, glucose 1, soybean meal 3, KH2PO4 0.5, and MgSO4.7H2O 0.25%; pH

of the broth was 6.0, 5.5, and 5.3 at initial and after 2 and 3 days of cultivation. The culture filtrate (9 l.) was extracted twice with 4.5 l. BuOH at pH 2.0 and the extract was concentrated to dryness under vacuum, yielding 9.3 g
tar substance. It was purified by silica gel chromatog. eluting with CHCl3-MeOH (50:1) and Sephadex LH-20 eluting with MeOH and crystallized from MeOH-C6H6 yielding 15.4 mg pale yellow crystals; inhibition of DOPA decarboxylase [9001-20-1] was ID50 = 0.015 μg/ml. It was soluble in alkaline water, MeOH, EtOH, BuOH, Me2CO, and dimethyl sulfoxide and insol. in C6H6, CHCl3, and toluol. LD50 against mice was 250 mg/kg, i.p., by injection of 25% solution in dimethyl sulfoxide.

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1958:18218 CAPLUS
DN 52:18218
OREF 52:3277b-d
TI Filipin, a new antibiotic
PA University of Illinois Foundation
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 783486		19570925	GB	

AB Cultivation of **Streptomyces** filipinensis, isolated from soil of the Philippine Islands, yielded a new crystalline compound called filipin (I), soluble in dimethylformamide, pyridine, 95% EtOH, MeOH, BuOH, iso-PrOH, tert-BuOH, AcOH, Et2O, EtOAc, and AmOAc. It contains 60.95% C, 8.90% H, and 30.15% O. It m. 195-205° and has [α]22D of 148.3°. Ultraviolet absorption maximum in 95% EtOH occur at 355, 338, and 322 mμ. I has a low phytotoxicity so that it is useful in the treatment of gray leaf spot in tomato plants caused by **Stemphylium** solani and is also useful in the treatment of other plant and fruit diseases caused by fungi. Also, because of its marked inhibition of Trichomonas foetus in concns. as low as 1.0 γ/ml., its use in the treatment of abortion in cattle is likewise indicated.

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1954:57206 CAPLUS
DN 48:57206
OREF 48:10123i
TI The antagonism of fungi and Streptomyces in mixed culture
AU Rehm, Hans Jurgen
CS Univ. Griefswald, Germany
SO Zentr. Bakteriol. Parasitenk. (1954), 107(Abt. II), 418-31
DT Journal
LA Unavailable
AB The growth of **Streptomyces** produces sufficient acid to interfere with the growth of Aspergillus niger. Trichothecium roseum grows very well in combination with **Streptomyces**. Rapidly growing fungi such as Citromyces fefferianus, Alternaria, **Stemphylium** piriforme, and Fusarium grow rapidly at first but are inhibited later.

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1954:12721 CAPLUS
DN 48:12721
OREF 48:2312i,2313a-d
TI Antimycin
IN Keitt, A. Geo. W.; Leben, Curt; Strong, Frank M.
PA Wisconsin Alumni Research Foundation
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	US 2657170	19531027	US	

AB Antimycin-A (I) is obtained from a culture of a **Streptomyces** strain (NRRL-2288) in a soybean-oil meal-glucose-$CaCO_3$ medium by adsorption on Celite 503 at pH 2.5, elution with EtOH, concentration and extraction with Et_2O, evaporation and extraction with Skellysolve A to remove oily material, and Soxhlet extraction with petr. ether. The light-colored solid deposited in the receiving flask is dissolved in boiling Et_2O, and petr. ether is added to start precipitation The separated crystals after repeated recrystn. from MeOH, MeOH-H_2O, $isoPr_2O$, or $isoPr_2O$-petr. ether are colorless, m. 139-40°, $[\alpha]^{25}D$ 64.8° in $CHCl_3$, and have spectral maximum at 245 and 347 mμ. I is a nitrogenous phenol, probably $C_{28}H_{40}O_9N_2$, giving pos. Millon's, $FeCl_3$, and Gibb's PhOH tests; neg. Molisch, ninhydrin, Erlich, fuchsin aldehyde, and 2,4-dinitrophenylhydrazine tests, and no color with cold H_2SO_4. It is freely soluble in EtOH, Me_2CO, and $CHCl_3$; very slightly soluble in petr. ether, C_6H_6, and CCl_4; insol. in H_2O and in 5% solns. of HCl, Na_2CO_3, and $NaHCO_3$. In aqueous NaOH, the crystals form a milky suspension which clears on warming, but active I cannot be recovered. EtOH solns. of I appear to be stable indefinitely at room temperature No particular sensitivity to light or air is noted. I is weakly acidic. Prepns. of I are assayed by a plate method by using the fungus Glomerella cingulata [cf. Leben and Keitt, Phytopathology 38, 899(1948)]. Crude EtOH-extracted antimycin is a more potent antifungal agent than I against Colletotrichum circinans and **Stemphylium** sarcinaeforme. I inhibits growth of Nigrospora sphaerica at a concentration of 1:800,000,000. It is useful as a fungicide for plants.

```
 b 411
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               $5.50  2 Type(s) in Format  5
            $5.50  2 Types
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     $0.53  TELNET
    $10.07  Estimated cost this search
    $17.28  Estimated total session cost   2.104 DialUnits
File 411:DIALINDEX(R)

DIALINDEX(R)
   (c) 2006 Dialog

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? sf biobus
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>>>1 of the specified files is not available
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? s (stemphylium consortiale)

Your SELECT statement is:
   s (stemphylium consortiale)

          Items   File
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              1   285: BioBusiness(R)_1985-1998/Aug W1

   2 files have one or more items; file list includes 27 files.

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     $1.29  Estimated cost this search
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SYSTEM:OS  - DIALOG OneSearch
  File  50:CAB Abstracts 1972-2006/Feb
        (c) 2006 CAB International
  File 285:BioBusiness(R) 1985-1998/Aug W1
        (c) 1998 BIOSIS

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? rd
      S2       3  RD  (unique items)
? t/5/1-3

 2/5/1     (Item 1 from file: 50)
DIALOG(R)File  50:CAB Abstracts
(c) 2006 CAB International. All rts. reserv.

0008683315   CAB Accession Number: 20043148484
   Effect  of  chemical scarification on germination and state of health of
 carrot ( Daucus carota L.) seeds.
   Bralewski, T. W.; Houbowicz, R.; Szopinska, D.
   Author email address: twbseed@interia.pl
```

Department of Seed Science and Technology, Faculty of Horticulture, Agricultural University of Poznan, Baranowo, Szamotulska 22, 62-081 Przezmierowo, Poland.
Folia Horticulturae vol. 16 (1): p.39-45
Publication Year: 2004
ISSN: 0867-1761
Publisher: Polskie Towarzystwo Nauk Ogrodniczych (Polish Society for Horticultural Science) Krakow, Poland
Language: English Summary Language: Polish Record Type: Abstract
Document Type: Journal article
Carrot cv. Jawa seeds were soaked for 12 h in water for 20(deg)C or in 0.5, 1, 2 and 2.5% HCl solution to determine the effects of scarification on the germination and infection of the seeds by plant pathogenic fungi (Alternaria alternata, A. dauci, A. radicina, Bipolaris sorokiniana [Cochliobolus sativus], Cladosporium spp, Epicoccum purpurescens [E. nigrum], Fusarium spp, Penicillium , spp., Phoma spp. and Stemphylium consortiale). Energy germination, germination capacity and number of diseased seedlings decreased, whereas the number of dead seeds and healthy ungerminated seedlings increased with increasing concentration of HCl. Seed treatment with HCl reduced seed infection by A. alternata, A. dauci and Fusarium spp.
27 ref.

DESCRIPTORS: carrots; fungal diseases; hydrochloric acid; plant diseases; plant pathogenic fungi; plant pathogens; scarification; seed dressings; seed germination; seed treatment; seeds
IDENTIFIERS: Hyphomycetes; **Stemphylium consortiale**
CAS REGISTRY NUMBERS: 7647-01-0
ORGANISM DESCRIPTORS: Alternaria alternata; Alternaria dauci; Alternaria radicina; Cladosporium; Cochliobolus sativus; Daucus carota; Epicoccum nigrum; fungi; Fusarium; Penicillium; Phoma; Stemphylium
BROADER TERMS: Alternaria; Deuteromycotina; Eumycota; fungi; Cochliobolus ; Dothideales; Ascomycotina; Daucus; Apiaceae; Apiales; dicotyledons; angiosperms; Spermatophyta; plants; Epicoccum
CABICODES: Horticultural Crops, (New March 2000) (FF003); Plant Physiology and Biochemistry (FF060); Viral, Bacterial and Fungal Diseases of Plants, (New March 2000) (FF610); Non-food/Non-feed Plant Products (SS200)

2/5/2 (Item 2 from file: 50)
DIALOG(R)File 50:CAB Abstracts

0004032435 CAB Accession Number: 19730306557
Studies on the causal agent of black fungal lesions on stored tomato fruit.
Bartz, J. A.
Gainesville, USA.
Proceedings of the Florida State Horticultural Society 1971 vol. 84 p.117-119
Publication Year: 1972
2 pl.
Language: English Record Type: Abstract
Document Type: Journal article
The lesions were caused by Stemphylium consortiale and S. botryosum, not previously reported in Florida. Both fungi were wound invaders and they were unable to infect healthy intact tomato fruits. In in vitro studies both fungi were sensitive to anilazine, metiram and maneb.
6 ref.

DESCRIPTORS: Anilazine; Metiram; Maneb; tomatoes; storage disorders; vegetables; fruit vegetables; plant pathology

IDENTIFIERS: **Stemphylium consortiale**; tomato diseases; Stemphylium botryosum; fruit storage
CAS REGISTRY NUMBERS: 101-05-3; 9006-42-2; 12427-38-2
ORGANISM DESCRIPTORS: Pleospora herbarum; Solanaceae; Lycopersicon esculentum; Pleospora tarda
GEOGRAPHIC NAMES: USA
BROADER TERMS: fungicides; pesticides; dithiocarbamate fungicides; carbamate pesticides; Pleospora; Dothideales; Ascomycotina; Eumycota; fungi; Solanales; dicotyledons; angiosperms; Spermatophyta; plants; Lycopersicon; Solanaceae; North America; America
CABICODES: Storage Problems and Pests of Food (QQ111); Crop Produce (QQ050); Pests, Pathogens and Biogenic Diseases of Plants, (Discontinued March 2000) (FF600)

2/5/3 (Item 1 from file: 285)
DIALOG(R)File 285:BioBusiness(R)

00012868
MICROBIOLOGICAL TRANSFORMATION OF QUINIDINE.
Eckenrode F M
DEP. CHEM., UNIV. IOWA, IOWA CITY, IOWA 52242.
Journal of Natural Products (Lloydia) Vol.47, No.5, p.882-884, 1984.
ISSN: 0163-3864
DOCUMENT TYPE: Article
LANGUAGE: English RECORD TYPE: Citation

DESCRIPTORS: ASPERGILLUS FUMIGATUS; CUNNINGHAMELLA ELEGANS; CUNNINGHAMELLA BLAKESLEEANA; CUNNINGHAMELLA BAINERI; CUNNINGHAMELLA ECHINULATA; **STEMPHYLIUM CONSORTIALE**; STREPTOMYCES GRISEUS; ANTIARRHYTHMIC DRUG; PHARMACOKINETICS
SUBJECT CODES & NAMES: 15400 -- CARDIOVASCULAR SYSTEM; 21100 -- PHARMACOLOGY & CHEMOTHERAPY; 21300 -- NATURAL PRODUCTS; 55200 -- INDUSTRIAL MICROBIOLOGY; 60100 -- PLANT BIOCHEMISTRY

FILE SEGMENT: NONUNIQUE

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? s (stemphylium consortiale) and cataly?

Your SELECT statement is:
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? s (stemphylium consortiale)

Your SELECT statement is:
   s (stemphylium consortiale)

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     $4.14  Estimated cost File411
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File 399:CA SEARCH(R) 1967-2006/UD=14413
       (c) 2006 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.

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? t/5/1-2

 1/5/1
DIALOG(R)File 399:CA SEARCH(R)
(c) 2006 American Chemical Society. All rts. reserv.

  107234761    CA: 107(25)234761d    JOURNAL
  Microbiological reductions of enantiomeric 2-oxo-1,4-cineoles
  AUTHOR(S): Goswami, Animesh; Steffek, Robin Paulson; Liu, Wei Guo;
Rosazza, John P. N.; Steffens, James J.
```

LOCATION: Coll. Pharm., Univ. Iowa, Iowa City, IA, 52242, USA
JOURNAL: Enzyme Microb. Technol. DATE: 1987 VOLUME: 9 NUMBER: 9
PAGES: 521-5 CODEN: EMTED2 ISSN: 0141-0229 LANGUAGE: English
SECTION:
CA216005 Fermentation and Bioindustrial Chemistry
CA230XXX Terpenes and Terpenoids
IDENTIFIERS: microorganism redn oxocineole enantiomer specificity, cineole oxo redn microbe hydroxycineole enantiomer
DESCRIPTORS:
Fermentation...
hydroxycineoles prodn. by, from oxocineoles
Asymmetric synthesis and induction,biochem....
of hydroxycineoles, from oxocineoles
Reduction,biochem., stereoselective...
of oxocineoles, microbial
Curvularia lunata... Mucor mucedo... Penicillium chrysogenum... Penicillium frequentans... Rhodotorula rubra... Stemphylium consortiale... Streptomyces griseus...
oxocineoles redn. by, stereoselectivity of
CAS REGISTRY NUMBERS:
22555-57-3P 22621-68-7P 38630-76-1P 96645-97-5P prepn. of, by microbial redn. of oxocineole
111536-20-0 111613-34-4 redn. of, stereoselective, with microorganisms

1/5/2
DIALOG(R)File 399:CA SEARCH(R)

78025118 CA: 78(5)25118t JOURNAL
Causal agent of black fungal lesions on stored tomato fruit
AUTHOR(S): Bartz, J. A.
LOCATION: Plant Pathol. Dep., Inst. Food Agric. Sci., Gainesville, Fla.
JOURNAL: Proc. Fla. State Hort. Soc. DATE: 1972 VOLUME: 84, PAGES: 117-19 CODEN: PFSHA7 LANGUAGE: English MEETING DATE: 71
SECTION:
CA905002 Agrochemicals
IDENTIFIERS: black lesion tomato fungicide, Stemphylium Dyrene Polyram Manzate
DESCRIPTORS:
Stemphylium botryosum... Stemphylium consortiale...
control of, on tomato in storage
Tomato...
Stemphylium botryosum and S. consortiale control on, in storage
CAS REGISTRY NUMBERS:
101-05-3 9006-42-2 12427-38-2 Stemphylium control by, on tomato in storage
148-79-8 17804-35-2 Stemphylium control by, on tomatoes
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